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PRELIMINARY ASSESSMENT
FOR
THE BP SANDY PLAINS DRUM SITE

PRELIMINARY ASSESSMENT

for

The BP Sandy Plains Drumsite

2670 Sandy Plains Road

Marietta, Georgia 30060

EPA ID No. GAD984291260

Prepared for

**U.S. Environmental Protection Agency
Region IV**

Prepared by:

Reginald K. Young

Georgia Environmental Protection Division

January 15, 1993

*W. J. [Signature]
WRSP (SEA)
4/7/93*

PRELIMINARY ASSESSMENT

**The BP Sandy Plains Drumsite
2670 Sandy Plains Road
Marietta, Georgia 30060**

1.0 INTRODUCTION

Under authority of the Comprehensive Environmental Response, Compensation and Liability Act of 1986 (SARA), the Department of Natural Resources (DNR, Environmental Protection Division (EPD) conducted a Preliminary Assessment (PA) at the BP Sandy Plains Drumsite in Marietta, Georgia. The purpose of this investigation was to collect information concerning conditions at the BP Sandy Plains Drumsite sufficient to assess the threat posed to human health and the environment to determine the need for additional investigation under CERCLA/SARA or other action. The scope of the investigation included review of available file information or comprehensive target survey and an on-site inspection.

2.0 SITE DESCRIPTION, OPERATIONAL HISTORY AND WASTE CHARACTERISTICS

2.1 Location

The BP Sandy Plains Site is a gas station/convenience store located at 2670 Sandy Plains, Marietta Cobb County, Georgia. The geographic coordinates are 34° 00' 45" N latitude and 84° 29' 44" longitude. There are several residences, a shopping center, three gas stations, and some other commercial enterprises within a one-quarter mile radius of the property. The shopping center is adjacent to the site, located on the same corner of the intersection. Both Sandy Plains Road and Barrett Parkway are heavily trafficked.

2.2 Site Description

The BP Sandy Plains Site is a retail convenience store and gas station. A dumpster is located in the northeast corner of the quarter acre lot the site occupies. Two black 55-gallon polydrums were abandoned directly behind the dumpster.

2.3 Operational History and Waste Characteristics

The BP Sandy Plains Site was referred to the Emergency Response and Removal Branch (ERRB) by the Marietta Police Department (MPD) on April 10, 1992. The On-Scene Coordinator (OSC) discovered two unmarked, 55-gallon containers of unknown liquid. Upon viewing the scene, the OSC issued a verbal delivery order to an ERCS contractor to do a hazard category screening, remove the drums to a secure facility, sample the drums to identify their contents, and then arrange for the appropriate disposal of the material.

Since the liquid in the drums was determined to be flammable at a minimum, the liquid in the drums would meet the definition of RCRA characteristic waste D001. This means that the abandoned drums contained a hazardous substance, as defined by Section 101 of CERCLA. The abandonment of these drums constituted a threat of a release of hazardous substances to the environment. The OSC directed that the hazardous substances found at the site be screened for safe transport, and moved to a secure RCRA facility. After this was completed the drums were sampled to definitively identify their contents. The drums were transported to MKC, Inc. during the evening of April 10, 1992. There were no signs of releases observed during the visual inspection of the site by Georgia EPD on November 18, 1992.

3.0 GROUNDWATER PATHWAY

3.1 Hydrogeologic Setting

Coble on 11-4-94
The BP Sandy Plains Site is located in Gwinnett County. Regionally, the facility is located in the Southern Piedmont Province Rocks in this province, defined as the Atlanta Group, are interpreted to be exposed in a large-scale synformal anticline. The Atlanta Group is characterized by metamorphosed sedimentary and volcanic rocks that have many similarities to lithologies of those found in the North Piedmont Province. Numerous

deformational events have occurred across the region and have created such items as faults, fractures, joints, foliation, folds, regional metamorphism, and both extrusive and intrusive igneous activity. On a smaller scale, the facility site is mapped as having a granitic gneiss bedrock. Overlying the bedrock are soils and saprolite formed by in situ weathering of the bedrock. Depth to competent bedrock generally exceeds six feet. In general, there are two interconnected aquifers found in this area: the surficial or saprolite aquifer and the bedrock or crystalline aquifer. Groundwater occupies joints, fractures, and other secondary openings in the crystalline rock, and pore spaces in the overlying saprolite. Recharge is by precipitation seeping through this material or by flowing directly into openings in exposed bedrock. The amount of stored water depends on the size and distribution of the joints and fractures, as well as the thickness and porosity of the overlying saprolite. Groundwater is typically found under water table conditions at depths in excess of 30 (estimate) feet.

3.2 Groundwater Targets

The majority of the population within a 4-mile radius of the BP Sandy Plains Site obtains potable water from the Cobb County water system. There are approximately sixty (60) private drinking water wells within this radius.

3.3 Groundwater Conclusions

A release to groundwater is not known and considered at this site. Furthermore, remediation by the Emergency Response Branch of U.S. EPA and their contractor has effectively removed the abandoned drums from the site.

4.0 SURFACE WATER PATHWAY

4.1 Hydrologic Setting

Surface water runoff from the BP Sandy Plains Site would flow in a Northwesterly direction near the BP car wash and eventually into the Cobb County Storm water runoff system.

4.2 Surface Water Targets

There are no drinking water intakes on the surface water pathway of this site.

4.3 Surface Water Conclusions

The surface water pathway is not of concern at the BP Sandy Plains Site. There is no sign of discolored soil or contamination at the site, therefore, a release to the surface water is not suspected.

5.0 SOIL EXPOSURE AND AIR PATHWAY

5.1 Physical Conditions

The BP Sandy Plains Site is active and is located in a heavy commercial area (zone) at the intersection of very commercialized Sandy Plains Road and Piedmont Road. There is no natural barriers or fence to restrict direct access to the site.

5.2 Soil and Air Targets

A. Threats to Public Health or Welfare

Since the drums were left unsecured there was a great potential for direct contact with any passerby. The flammable characteristics of the liquid in the drums presented a fire and explosion threat, which was accentuated since there were no mechanisms in place to separate the drums from potential ignition sources. Because the exact contents of the drums are unknown at this time, it is unknown if the drums presented any other health threats due to their toxicity. However, the drums did present a potential toxicity threat. If the contents of the drums exhibit any toxic characteristics, a direct exposure pathway to the public would have been easy to complete. The population most at risk were the people working at the BP station and its customers. Also, people driving into the shopping center would pass by the drums, as would pedestrians in the area. The population within one mile of the site is approximately 38,910 (Centracts Data for BP Sandy Plains Site).

B. Threats to the Environment

Due to their location the threat posed by the drums to the environment were minimal.

5.3 Soil Exposure and Air Pathway Conclusions

5.3 Soil Exposure and Air Pathway Conclusions

The soil exposure pathway appears poses no threat to human health or the environment, since all suspected drums were removed by U.S. EPA. A release of the air is not suspected.

6.0 SUMMARY AND CONCLUSIONS

The BP Sandy Plains Site is an active site. Work is underway to determine where the drums were purchased, and who purchased them. An attempt will then be made to trace the ownership of the drums, and the source of their contents. There is no sign of releases at this location. There are no groundwater wells in the study area being used for potable supplies, nor are there any surface water intakes found along the surface water pathway. Additionally, no release to the air is suspected due to the removal of both drums on site. During a second site inspection by Georgia EPD two more drums were found abandon on the property line between the BP Sandy Plains Site and the Medical First building. Both were in good condition and there was no apparent release. The U.S. EPA Emergency Response and Removal Branch were notified immediately. Also, the inspection revealed that the BP station was illegally storing four drums of their hazardous waste on site for a period greater than ninety (90) days. Two of the drums were did not have proper labels. A notice of violations from Georgia EPD is being sent to the BP headquarters in Atlanta concerning the improper storage and labeling of these drums. Based on all information provided, the BP Sandy Plains Site is not recommended for further remedial action at this time.

REFERENCES

1. Reginald Young, Field notes conducted on-site November 18, 1992 and January 19, 1993.
2. Paul Peronard, United States Environmental Protection Agency, Region IV, On-Scene Coordinator for BP Sandy Plains Site.
3. Topo-Aid, Re: Latitude/Longitude Coordinates.
4. Geologic Map of Georgia (1976), Georgia Geologic Survey, Atlanta, Scale 1:500,000.
5. McConnell Keith and Charlotte Abrams (1984), Geology of the Greater Atlanta Region, Georgia Geologic Survey, Bulletin 96, p. 127.
6. Cressler, C. W., C. J. Thurmond, and W. G. Hester (1983), Groundwater in the Greater Atlanta Region, Georgia Geologic Survey, Information Circular 63, p. 144.
7. Contracts Data, Frost Associates, BP Sandy Plains Drumsite Rising Fawn, Georgia.

APPENDICES

- A. POTENTIAL HAZARDOUS WASTE SITE PA FORM**
- B. PA SCORESHEETS**
- C. CERCLA OFF-SITE DISPOSAL REPORTS**
- D. UNIFORM HAZARDOUS WASTE MANIFEST**
- E. U.S.G.S. MAPS WITH 4-MILE RADIUS INFORMATION**

Potential Hazardous Waste Site Preliminary Assessment Form		Identification	
		State: GA	CERCLIS Number: 0984291260
		CERCLIS Discovery Date:	
1. General Site Information			
Name: BP Sandy Plains		Street Address: 2670 Sandy Plains Road	
City: Marietta	State: GA	Zip Code: 30060	County: Cobb Co. Code: 067 Cong. Dist: 16th
Latitude: 34° 00' 45.0"	Longitude: 84° 29' 44.0"	Approximate Area of Site: 1/2 Acres	Status of Site: <input checked="" type="checkbox"/> Active <input type="checkbox"/> Not Specified <input type="checkbox"/> Inactive <input type="checkbox"/> NA (GW plume, etc.)
2. Owner/Operator Information			
Owner: BP Oil Company		Operator: BP Oil Company	
Street Address: 9040 Roswell Rd Ste 500		Street Address: 9040 Roswell Rd Ste 500	
City: Atlanta		City: Atlanta	
State: GA	Zip Code: 30350	Telephone: (404) 641-2404	State: GA Zip Code: 30350 Telephone: (404) 641-2404
Type of Ownership: <input checked="" type="checkbox"/> Private <input type="checkbox"/> Federal Agency Name: _____ <input type="checkbox"/> State <input type="checkbox"/> Indian		How Initially Identified: <input type="checkbox"/> Citizen Complaint <input type="checkbox"/> PA Petition <input type="checkbox"/> State Local Program <input type="checkbox"/> RCRA/CERCLA Notification	
<input type="checkbox"/> County <input type="checkbox"/> Municipal Name: _____ <input type="checkbox"/> Not Specified <input type="checkbox"/> Other: _____		<input type="checkbox"/> Federal Program <input type="checkbox"/> Incidental <input type="checkbox"/> Not Specified <input checked="" type="checkbox"/> Other: Marietta Police	
3. Site Evaluator Information			
Name of Evaluator: Reginald K Young		Agency/Organization: GA EPD	
Date Prepared: 1-20-93			
Street Address: 205 Butler St #1154		City: Atlanta	State: GA
Name of EPA or State Agency Contact: Jennifer Kaduck		Street Address: 205 Butler #1154 At GA 30334	
City: Atlanta		State: GA	Telephone: (404) 656-2833
4. Site Disposition (for EPA use only)			
Emergency Response/Removal Assessment Recommendation: <input type="checkbox"/> Yes <input type="checkbox"/> No Date: _____		CERCLIS Recommendation: <input type="checkbox"/> Higher Priority SI <input type="checkbox"/> Lower Priority SI <input type="checkbox"/> NFRAP <input type="checkbox"/> RCRA <input type="checkbox"/> Other: _____ Date: _____	
Signature: _____		Name (typed): _____	
Position: _____			



Potential Hazardous Waste Site
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CERCLIS Number:

GA0984291260

5. General Site Characteristics

Predominant Land Uses Within 1 Mile of Site (check all that apply):

- | | | |
|---|--------------------------------------|---|
| <input type="checkbox"/> Industrial | <input type="checkbox"/> Agriculture | <input type="checkbox"/> DOI |
| <input checked="" type="checkbox"/> Commercial | <input type="checkbox"/> Mining | <input type="checkbox"/> Other Federal Facility |
| <input checked="" type="checkbox"/> Residential | <input type="checkbox"/> DOD | |
| <input type="checkbox"/> Forest/Fields | <input type="checkbox"/> DOE | <input type="checkbox"/> Other _____ |

Site Setting:

- ☒ Urban
☐ Suburban
☐ Rural

Years of Operation:

Beginning Year _____

Ending Year _____

☒ Unknown

Type of Site Operations (check all that apply):

☐ Manufacturing (must check subcategory)

- ☐ Lumber and Wood Products
☐ Inorganic Chemicals
☐ Plastic and/or Rubber Products
☐ Paints, Varnishes
☐ Industrial Organic Chemicals
☐ Agricultural Chemicals
(e.g., pesticides, fertilizers)
☐ Miscellaneous Chemical Products
(e.g., adhesives, explosives, ink)
☐ Primary Metals
☐ Metal Coating, Plating, Engraving
☐ Metal Forging, Stamping
☐ Fabricated Structural Metal Products
☐ Electronic Equipment
☐ Other Manufacturing

☐ Mining

- ☐ Metals
☐ Coal
☐ Oil and Gas
☐ Non-metallic Minerals

- ☐ Retail
☐ Recycling
☐ Junk/Salvage Yard
☐ Municipal Landfill
☐ Other Landfill
☐ DOD
☐ DOE
☐ DOI
☐ Other Federal Facility _____
☐ RCRA

- ☐ Treatment, Storage, or Disposal
☐ Large Quantity Generator
☐ Small Quantity Generator
☐ Subtitle D
☐ Municipal
☐ Industrial

- ☐ "Converter"
☐ "Protective Filer"
☐ "Non- or Late Filer"

☐ Not Specified

☒ Other Gas Station

Waste Generated:

- ☐ Onsite
☒ Offsite
☐ Onsite and Offsite

Waste Deposition Authorized By:

- ☐ Present Owner
☐ Former Owner
☐ Present & Former Owner
☒ Unauthorized
☐ Unknown

Waste Accessible to the Public:

- ☒ Yes
☐ No

Distance to Nearest Dwelling,
School, or Workplace:

50 Feet

6. Waste Characteristics Information

Source Type:
(check all that apply)

- ☐ Landfill
☐ Surface Impoundment
☒ Drums
☐ Tanks and Non-Drum Containers
☐ Chemical Waste Pile
☐ Scrap Metal or Junk Pile
☐ Tailings Pile
☐ Trash Pile (open dump)
☐ Land Treatment
☐ Contaminated Ground Water Plume
(unidentified source)
☐ Contaminated Surface Water/Sediment
(unidentified source)
☐ Contaminated Soil
☐ Other _____
☐ No Sources

Source Waste Quantity:
(include units)

2-55 gallon

Tier *

General Types of Waste (check all that apply):

- | | |
|---|--|
| <input type="checkbox"/> Metals | <input type="checkbox"/> Pesticides/Herbicides |
| <input type="checkbox"/> Organics | <input type="checkbox"/> Acids/Bases |
| <input type="checkbox"/> Inorganics | <input type="checkbox"/> Oily Waste |
| <input checked="" type="checkbox"/> Solvents | <input type="checkbox"/> Municipal Waste |
| <input type="checkbox"/> Paints/Pigments | <input type="checkbox"/> Mining Waste |
| <input type="checkbox"/> Laboratory/Hospital Waste | <input type="checkbox"/> Explosives |
| <input type="checkbox"/> Radioactive Waste | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Construction/Demolition
Waste | |

Physical State of Waste as Deposited (check all that
apply):

- ☐ Solid ☐ Sludge ☐ Powder
☒ Liquid ☐ Gas

* C = Constituent, W = Wastestream, V = Volume, A = Area



Potential Hazardous Waste Site
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CERCLIS Number:

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7. Ground Water Pathway

<p>Is Ground Water Used for Drinking Water Within 4 Miles:</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Type of Drinking Water Wells Within 4 Miles (check all that apply):</p> <p><input type="checkbox"/> Municipal <input checked="" type="checkbox"/> Private <input type="checkbox"/> None</p>	<p>Is There a Suspected Release to Ground Water:</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Have Primary Target Drinking Water Wells Been Identified:</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes, Enter Primary Target Population:</p> <p>_____ People</p>	<p>List Secondary Target Population Served by Ground Water Withdrawn From:</p> <table><tr><td>0 - ¼ Mile</td><td>310</td></tr><tr><td>> ¼ - ½ Mile</td><td>949</td></tr><tr><td>> ½ - 1 Mile</td><td>3784</td></tr><tr><td>> 1 - 2 Miles</td><td>15858</td></tr><tr><td>> 2 - 3 Miles</td><td>28367</td></tr><tr><td>> 3 - 4 Miles</td><td>38960</td></tr><tr><td>Total Within 4 Miles</td><td>88231</td></tr></table>	0 - ¼ Mile	310	> ¼ - ½ Mile	949	> ½ - 1 Mile	3784	> 1 - 2 Miles	15858	> 2 - 3 Miles	28367	> 3 - 4 Miles	38960	Total Within 4 Miles	88231
0 - ¼ Mile	310															
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> 1 - 2 Miles	15858															
> 2 - 3 Miles	28367															
> 3 - 4 Miles	38960															
Total Within 4 Miles	88231															
<p>Depth to Shallowest Aquifer:</p> <p>70 Feet</p> <p>Karst Terrain/Aquifer Present:</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>Nearest Designated Wellhead Protection Area:</p> <p><input type="checkbox"/> Underlies Site <input type="checkbox"/> > 0 - 4 Miles <input checked="" type="checkbox"/> None Within 4 Miles</p>															

8. Surface Water Pathway

<p>Type of Surface Water Drawing Site and 15 Miles Downstream (check all that apply):</p> <p><input type="checkbox"/> Stream <input type="checkbox"/> River <input type="checkbox"/> Pond <input type="checkbox"/> Lake <input type="checkbox"/> Bay <input type="checkbox"/> Ocean <input checked="" type="checkbox"/> Other <u>Creek</u></p>	<p>Shortest Overland Distance From Any Source to Surface Water:</p> <p>_____ Feet</p> <p>_____ Miles</p>																				
<p>Is There a Suspected Release to Surface Water:</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>Site is Located in:</p> <p><input type="checkbox"/> Annual - 10 yr Floodplain <input type="checkbox"/> > 10 yr - 100 yr Floodplain <input checked="" type="checkbox"/> > 100 yr - 500 yr Floodplain <input type="checkbox"/> > 500 yr Floodplain</p>																				
<p>Drinking Water Intakes Located Along the Surface Water Migration Path:</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Have Primary Target Drinking Water Intakes Been Identified:</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes, Enter Population Served by Primary Target Intakes</p> <p>_____ People</p>	<p>List All Secondary Target Drinking Water Intakes:</p> <table><thead><tr><th>Name</th><th>Water Body</th><th>Flow (cfs)</th><th>Population Served</th></tr></thead><tbody><tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr><tr><td colspan="4">Total within 15 Miles _____</td></tr></tbody></table>	Name	Water Body	Flow (cfs)	Population Served	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	Total within 15 Miles _____			
Name	Water Body	Flow (cfs)	Population Served																		
_____	_____	_____	_____																		
_____	_____	_____	_____																		
_____	_____	_____	_____																		
Total within 15 Miles _____																					
<p>Fisheries Located Along the Surface Water Migration Path:</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Have Primary Target Fisheries Been Identified</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>List All Secondary Target Fisheries:</p> <table><thead><tr><th>Water Body/Fishery Name</th><th>Flow (cfs)</th></tr></thead><tbody><tr><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td></tr></tbody></table>	Water Body/Fishery Name	Flow (cfs)	_____	_____	_____	_____	_____	_____	_____	_____										
Water Body/Fishery Name	Flow (cfs)																				
_____	_____																				
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_____	_____																				
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CERCLIS Number:

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8. Surface Water Pathway (continued)

Wetlands Located Along the Surface Water Migration Path:

☐ Yes
☒ No

Have Primary Target Wetlands Been Identified:

☐ Yes
☐ No

List Secondary Target Wetlands:

Water Body Flow (cfs) Frontage Miles

Other Sensitive Environments Located Along the Surface Water Migration Path:

☐ Yes
☒ No

Have Primary Target Sensitive Environments Been Identified:

☐ Yes
☐ No

List Secondary Target Sensitive Environments:

Water Body Flow (cfs) Sensitive Environment Type

9. Soil Exposure Pathway

Are People Occupying Residences or
Attending School or Daycare on or Within 200
Feet of Areas of Known or Suspected
Contamination:

☐ Yes
☒ No

If Yes, Enter Total Resident Population:

_____ People

Number of Workers Onsite:

☐ None
☒ 1 - 100
☐ 101 - 1,000
☐ > 1,000

Have Terrestrial Sensitive Environments Been Identified on
or Within 200 Feet of Areas of Known or Suspected
Contamination:

☐ Yes
☒ No

If Yes, List Each Terrestrial Sensitive Environment:

10. Air Pathway

Is There a Suspected Release to Air:

☐ Yes
☒ No

Enter Total Population on or Within:

Onsite	2
0 - ¼ Mile	310
> ¼ - ½ Mile	949
> ½ - 1 Mile	3784
> 1 - 2 Miles	15858
> 2 - 3 Miles	28367
> 3 - 4 Miles	38960
Total Within 4 Miles	88231

Wetlands Located Within 4 Miles of the Site:

☐ Yes
☒ No

Other Sensitive Environments Located Within 4 Miles of the Site:

☐ Yes
☒ No

List All Sensitive Environments Within ½ Mile of the Site

Distance Sensitive Environment Type Wetlands Area (acres)

Onsite		
0 - ¼ Mile		
> ¼ - ½ Mile		

APPENDIX A

OMB Approval Number: 2050-0095
Approved for Use Through: 1/92

PA Scoresheets

Site Name: BP Sandy Plains

CERCLIS ID No.: GAD 984291260

Street Address: 2670 Sandy Plains Rd

City/State/Zip: Marietta GA 30060

Investigator: Reginald Young

Agency/Organization: Georgia EPD

Street Address: 205 Butler St #1154

City/State/Zip: Atlanta, GA 30334

Date: 1/20/93

GENERAL INFORMATION**Site Description and Operational History:**

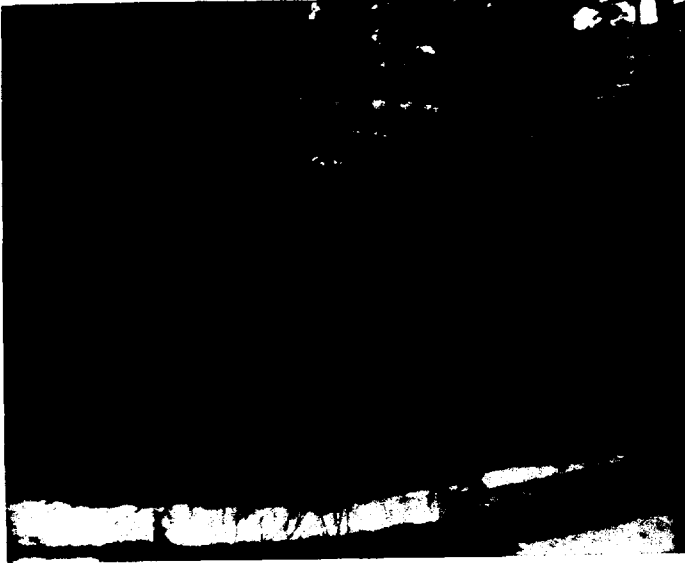
The BP Sandy Plains Site is a gas/station Convenience store located at 2670 Sandy Plains, Marietta Cobb County, Georgia. The geographic coordinates are $34^{\circ}00'45''$ N latitude and $84^{\circ}29'44''$ longitude. There are several residences, a shopping center, three gas stations, and some commercial enterprises within a one-quarter mile radius of the property. The shopping center is adjacent to the site, located on the same corner of the intersection. Both Sandy Plains Road and Barrett Parkway are heavily trafficked.

Probable Substances of Concern:

(Previous investigations, analytical data)

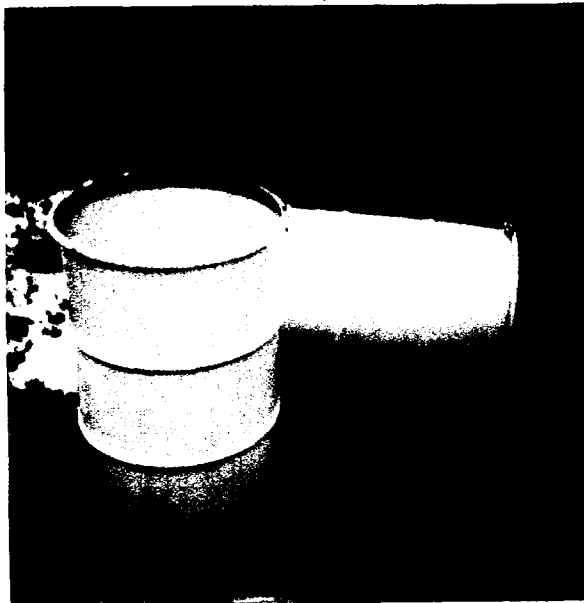
The BP Sandy Plains Site was referred to the Emergency Response and Removal Branch by the Marietta Police Department on April 10, 1992. The On-Scene Coordinator (OSC) discovered two unmarked, 55-gallon containers of unknown liquid. Upon viewing the scene the OSC issued a verbal delivery order to an ERCS Contractor to do a hazard category screening, remove the drums to a secure facility, sample the drums to identify their contents, and then arrange for the appropriate disposal of the material.

BP Sandy Plains
1/29/93



County Name Cobb
Picture No 1 of 2
Site Name BP Sandy Plains
Date 11/18/92 Weather Sunny
Direction Facing _____ Time _____
Photographer RIC Young
Program HWMP
Explanation: This is the area
where the abandoned drums
were found.

Other: Drums in the picture
belong to BP



County Name Cobb
Picture No 2 of 2
Site Name BP Sandy Plains
Date 1-19-93 Weather Overcast
Direction Facing _____ Time _____
Photographer RY
Program HWMP
Explanation:

Two drums abandoned
on the property between
BP and medical first building.

Other:
These drums were noticed
on the second site visit.
They were reported to the
Emergency Response and Removal
Branch at E.P.A.

SOURCE EVALUATION

Source No.: 1	Source Name: Drums	Source Waste Quantity (WQ) Calculations:
Source Description: 2 55-gallon drums		110 gallons of liquid waste

Source No.:	Source Name:	Source Waste Quantity (WQ) Calculations:
Source Description:		

Source No.:	Source Name:	Source Waste Quantity (WQ) Calculations:
Source Description:		

Site WC:

18

PA TABLE 1: WASTE CHARACTERISTICS (WC) SCORES

PA Table 1a: WC Scores for Single Source Sites and Formulas for Multiple Source Sites

TIER	SOURCE TYPE	SINGLE SOURCE SITES (assigned WC scores)			MULTIPLE SOURCE SITES
		WC = 18	WC = 32	WC = 100	Formula for Assigning Source WQ Values
CONCENTRATION	N/A	≤ 100 lb	> 100 to 10,000 lb	$> 10,000$ lb	$lb + 1$
WASTEWATER	N/A	$\leq 500,000$ lb	$> 500,000$ to 50 million lb	> 50 million lb	$lb + 5,000$
VOLUME	Landfill	≤ 6.75 million ft^3 $\leq 250,000$ yd^3	> 6.75 million to 675 million ft^3 $> 250,000$ to 25 million yd^3	> 675 million ft^3 > 25 million yd^3	$ft^3 + 67,500$ $yd^3 + 2,500$
	Surface impoundment	$\leq 6,750$ ft^3 ≤ 250 yd^3	$> 6,750$ to 675,000 ft^3 > 250 to 25,000 yd^3	$> 675,000$ ft^3 $> 25,000$ yd^3	$ft^3 + 67.5$ $yd^3 + 2.5$
	Drums	$\leq 1,000$ drums	$> 1,000$ to 100,000 drums	$> 100,000$ drums	$drums + 10$
	Tanks and non-drum containers	$\leq 50,000$ gallons	$> 50,000$ to 5 million gallons	> 5 million gallons	$gallons + 500$
	Contaminated soil	≤ 6.75 million ft^3 $\leq 250,000$ yd^3	> 6.75 million to 675 million ft^3 $> 250,000$ to 25 million yd^3	> 675 million ft^3 > 25 million yd^3	$ft^3 + 67,500$ $yd^3 + 2,500$
	Pile	$\leq 6,750$ ft^3 ≤ 250 yd^3	$> 6,750$ to 675,000 ft^3 > 250 to 25,000 yd^3	$> 675,000$ ft^3 $> 25,000$ yd^3	$ft^3 + 67.5$ $yd^3 + 2.5$
AREA	Other	$\leq 6,750$ ft^3 ≤ 250 yd^3	$> 6,750$ to 675,000 ft^3 > 250 to 25,000 yd^3	$> 675,000$ ft^3 $> 25,000$ yd^3	$ft^3 + 67.5$ $yd^3 + 2.5$
	Landfill	$\leq 340,000$ ft^2 ≤ 7.8 acres	$> 340,000$ to 34 million ft^2 > 7.8 to 780 acres	> 34 million ft^2 > 780 acres	$ft^2 + 3,400$ $acres + 0.078$
	Surface impoundment	$\leq 1,300$ ft^2 ≤ 0.029 acres	$> 1,300$ to 130,000 ft^2 > 0.029 to 2.9 acres	$> 130,000$ ft^2 > 2.9 acres	$ft^2 + 13$ $acres + 0.00029$
	Contaminated soil	≤ 3.4 million ft^2 ≤ 78 acres	> 3.4 million to 340 million ft^2 > 78 to 7,800 acres	> 340 million ft^2 $> 7,800$ acres	$ft^2 + 34,000$ $acres + 0.78$
	Pile*	$\leq 1,300$ ft^2 ≤ 0.029 acres	$> 1,300$ to 130,000 ft^2 > 0.029 to 2.9 acres	$> 130,000$ ft^2 > 2.9 acres	$ft^2 + 13$ $acres + 0.00029$
AREA	Land treatment	$\leq 27,000$ ft^2 ≤ 0.62 acres	$> 27,000$ to 2.7 million ft^2 > 0.62 to 62 acres	> 2.7 million ft^2 > 62 acres	$ft^2 + 270$ $acres + 0.0062$

1 ton = 2,000 lb = 1 yd^3 = 4 drums = 200 gallons

* Use area of land surface under pile, not surface area of pile.

PA Table 1b: WC Scores for Multiple Source Sites

WQ Total	WC Score
> 0 to 100	18
> 100 to 10,000	32
$> 10,000$	100

GROUND WATER PATHWAY GROUND WATER USE DESCRIPTION

Describe Ground Water Use Within 4-miles of the Site:

(Describe stratigraphy, information on aquifers, municipal and/or private wells)

The majority of the population within a 4-mile radius of the BP Sandy Plains Site obtains potable water from the Cobb County water system. There are approximately sixty (60) private drinking water wells within this radius. In general, there are two interconnected aquifers found in this area: the surficial or saprolite aquifer and the bedrock or crystalline aquifer. Groundwater occupies joints, fractures, and other secondary openings in the crystalline rock, and pore spaces in the overlying saprolite. Groundwater is typically found under water table conditions at depths in excess of 30 (estimate) feet.

Calculations for Drinking Water Populations Served by Ground Water:

From 0 to $\frac{1}{4}$ miles there are approximately 310 residents on city water with 3 using private wells.
 From $\frac{1}{4}$ to $\frac{1}{2}$ miles there are approximately 950 residents on city water with 9 using private wells.
 From $\frac{1}{2}$ to 1 miles - 3784 residents - 38 on private wells
 From 1 to 2 miles - 15858 residents - 129 on private wells
 From 2 to 3 miles - 28367 residents - 138 on private wells
 From 3 to 4 miles - 38960 residents - 153 on private wells

GROUND WATER PATHWAY CRITERIA LIST	
SUSPECTED RELEASE	PRIMARY TARGETS
<p>Y N U e o n s k</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Are sources poorly contained?</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Is the source a type likely to contribute to ground water contamination (e.g., wet lagoon)?</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Is waste quantity particularly large?</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Is precipitation heavy?</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Is the infiltration rate high?</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Is the site located in an area of karst terrain?</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Is the subsurface highly permeable or conductive?</p> <p><input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Is drinking water drawn from a shallow aquifer?</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Are suspected contaminants highly mobile in ground water?</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Does analytical or circumstantial evidence suggest ground water contamination?</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Other criteria? _____</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> SUSPECTED RELEASE?</p>	<p>Y N U e o n s k</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Is any drinking water well nearby?</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Has any nearby drinking water well been closed?</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Has any nearby drinking water user reported foul-tasting or foul-smelling water?</p> <p><input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Does any nearby well have a large drawdown or high production rate?</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Is any drinking water well located between the site and other wells that are suspected to be exposed to a hazardous substance?</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Does analytical or circumstantial evidence suggest contamination at a drinking water well?</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Does any drinking water well warrant sampling?</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Other criteria? _____</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> PRIMARY TARGET(S) IDENTIFIED?</p>
<p>Summarize the rationale for Suspected Release (attach an additional page if necessary):</p> <p>A release to ground-water is not known and considered at this site. Furthermore, remediation by the emergency response branch of the USEPA and their contractor has effectively removed the abandoned drums from the site.</p>	<p>Summarize the rationale for Primary Targets (attach an additional page if necessary):</p>

Site Name: B P Sandy Plains
Date: 1/29/93

GROUND WATER PATHWAY SCORESHEET

Pathway Characteristics	
Do you suspect a release (see Ground Water Pathway Criteria List, page 7)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Is the site located in karst terrain?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Depth to aquifer:	<u>1300</u> ft
Distance to the nearest drinking water well:	<u>1300</u> ft

LIKELIHOOD OF RELEASE

- SUSPECTED RELEASE:** If you suspect a release to ground water (see page 7), assign a score of 550. Use only column A for this pathway.
- NO SUSPECTED RELEASE:** If you do not suspect a release to ground water, and the site is in karst terrain or the depth to aquifer is 70 feet or less, assign a score of 500; otherwise, assign a score of 340. Use only column B for this pathway.

	A Suspected Release (550)	B No Suspected Release (500 or 340)	Reference
		340	
LR =		340	

TARGETS

- PRIMARY TARGET POPULATION:** Determine the number of people served by drinking water wells that you suspect have been exposed to a hazardous substance from the site (see Ground Water Pathway Criteria List, page 7).
0 people x 10 =
- SECONDARY TARGET POPULATION:** Determine the number of people served by drinking water wells that you do NOT suspect have been exposed to a hazardous substance from the site, and assign the total population score from PA Table 2.
Are any wells part of a blended system? Yes ☐ No ☒
If yes, attach a page to show apportionment calculations.
- NEAREST WELL:** If you have identified a primary target population for ground water, assign a score of 50; otherwise, assign the Nearest Well score from PA Table 2. If no drinking water wells exist within 4 miles, assign a score of zero.
- WELLHEAD PROTECTION AREA (WHPA):** If any source lies within or above a WHPA, or if you have identified any primary target well within a WHPA, assign a score of 20; assign 5 if neither condition holds but a WHPA is present within 4 miles; otherwise assign zero.
- RESOURCES**

	0		
		10	
		2	
		0	
T =		12	

WASTE CHARACTERISTICS

- If you have identified any primary target for ground water, assign the waste characteristics score calculated on page 4, or a score of 32, whichever is GREATER; do not evaluate part B of this factor.
- If you have NOT identified any primary target for ground water, assign the waste characteristics score calculated on page 4.

	(100, 32 = 32)	
	(100, 32 = 32)	(100, 32 = 32)
		18
WC =		18

GROUND WATER PATHWAY SCORE:

$$\frac{LR \times T \times WC}{82,500}$$

(subject to a maximum of 100)

1

PA TABLE 2: VALUES FOR SECONDARY GROUND WATER TARGET POPULATIONS

PA Table 2a: Non-Karst Aquifers

Distance from Site	Population	Nearest Well (choose highest)	Population Served by Wells Within Distance Category										Population Value
			1 to 10	11 to 30	31 to 100	101 to 300	301 to 1,000	1,001 to 3,000	3,001 to 10,000	10,001 to 30,000	30,001 to 100,000	Greater than 100,000	
0 to 1/4 mile	310	20	1	2	5	16	52	163	521	1,633	5,214	16,325	1
> 1/4 to 1/2 mile	950	18	1	1	3	10	32	101	323	1,012	3,233	10,121	1
> 1/2 to 1 mile	3784	9	1	1	2	5	17	52	167	522	1,668	5,224	2
> 1 to 2 miles	15858	5	1	1	1	3	8	29	94	294	939	2,938	3
> 2 to 3 miles	28367	3	1	1	1	2	7	21	68	212	678	2,122	2
> 3 to 4 miles	38960	2	1	1	1	1	4	13	42	131	417	1,308	1
Nearest Well -		2											Score - 10

PA Table 2b: Karst Aquifers

Distance from Site	Population	Nearest Well (use 20 for karst)	Population Served by Wells Within Distance Category										Population Value
			1 to 10	11 to 30	31 to 100	101 to 300	301 to 1,000	1,001 to 3,000	3,001 to 10,000	10,001 to 30,000	30,001 to 100,000	Greater than 100,000	
0 to 1/4 mile		20	1	2	5	16	52	163	521	1,633	5,214	16,325	
> 1/4 to 1/2 mile		20	1	1	3	10	32	101	323	1,012	3,233	10,121	
> 1/2 to 1 mile		20	1	1	3	8	26	82	261	816	2,607	8,162	
> 1 to 2 miles		20	1	1	3	8	26	82	261	816	2,607	8,162	
> 2 to 3 miles		20	1	1	3	8	26	82	261	816	2,607	8,162	
> 3 to 4 miles		20	1	1	3	8	26	82	261	816	2,607	8,162	
Nearest Well -													Score -

Date: BP Sandy Plains
1/29/93

**SURFACE WATER PATHWAY
MIGRATION ROUTE SKETCH**

Surface Water Migration Route Sketch:

(include runoff route, probable point of entry, 15-mile target distance limit, intakes, fisheries, and sensitive environments)

Surface water runoff from the BP Sandy Plains Site would flow in a Northwesternly direction near the BP car wash and eventually into the Cobb County Storm water runoff system. There are no drinking water intakes on the surface water pathway of this site.

The surface water pathway is not of concern at the BP Sandy Plains Site. There is no sign of discolored soil or contamination at the site, therefore, a release to the surface water is not suspected.

Site name: BP Sandy Plains
Date: 1/29/93

SURFACE WATER PATHWAY CRITERIA LIST	
SUSPECTED RELEASE	PRIMARY TARGETS
<p>Y N U e o n s k</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Is surface water nearby?</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Is waste quantity particularly large?</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Is the drainage area large?</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Is rainfall heavy?</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Is the infiltration rate low?</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Are sources poorly contained or prone to runoff or flooding?</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Is a runoff route well defined (e.g., ditch or channel leading to surface water)?</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Is vegetation stressed along the probable runoff route?</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Are sediments or water unnaturally discolored?</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Is wildlife unnaturally absent?</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Has deposition of waste into surface water been observed?</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Is ground water discharge to surface water likely?</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Does analytical or circumstantial evidence suggest surface water contamination?</p> <p><input type="checkbox"/> <input type="checkbox"/> Other criteria? _____</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> SUSPECTED RELEASE?</p>	<p>Y N U e o n s k</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Is any target nearby? If yes:</p> <p><input type="checkbox"/> Drinking water intake</p> <p><input type="checkbox"/> Fishery</p> <p><input type="checkbox"/> Sensitive environment</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> Has any intake, fishery, or recreational area been closed?</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> Does analytical or circumstantial evidence suggest surface water contamination at or downstream of a target?</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> Does any target warrant sampling? If yes:</p> <p><input type="checkbox"/> Drinking water intake</p> <p><input type="checkbox"/> Fishery</p> <p><input type="checkbox"/> Sensitive environment</p> <p><input type="checkbox"/> <input type="checkbox"/> Other criteria? _____</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> PRIMARY INTAKE(S) IDENTIFIED?</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> PRIMARY FISHERY(IES) IDENTIFIED?</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> PRIMARY SENSITIVE ENVIRONMENT(S) IDENTIFIED?</p>
<p>Summarize the rationale for Suspected Release (attach an additional page if necessary):</p>	<p>Summarize the rationale for Primary Targets (attach an additional page if necessary):</p>

Site name: BP Sandy Plains
 Date: 1/29/93

**SURFACE WATER PATHWAY
 LIKELIHOOD OF RELEASE AND DRINKING WATER THREAT SCORESHEET**

Pathway Characteristics	
Do you suspect a release (see Surface Water Pathway Criteria List, page 11)?	Yes _____ No <u>X</u>
Distance to surface water:	<u>5280</u> ft
Flood frequency:	<u>> 100yr - 500 yrs</u>
What is the downstream distance to the nearest drinking water intake? _____ miles	
Nearest fishery? _____ miles	Nearest sensitive environment? _____ miles

LIKELIHOOD OF RELEASE

- SUSPECTED RELEASE:** If you suspect a release to surface water (see page 11), assign a score of 550. Use only column A for this pathway.
- NO SUSPECTED RELEASE:** If you do not suspect a release to surface water, use the table below to assign a score based on distance to surface water and flood frequency. Use only column B for this pathway.

Distance to surface water \leq 2,500 feet	500
Distance to surface water > 2,500 feet, and	
Site in annual or 10-year floodplain	500
Site in 100-year floodplain	400
Site in 500-year floodplain	300
Site outside 500-year floodplain	100

A Suspected Release	B No Suspected Release
550	(500, 400, 300 or 100)
	300
550	(500, 400, 300 or 100)
	300

LR =

DRINKING WATER THREAT TARGETS

- Record the water body type, flow (if applicable), and number of people served by each drinking water intake within the target distance limit. If there is no drinking water intake within the target distance limit, factors 4, 5, and 6 each receive zero scores.

Intake Name	Water Body Type	Flow	People Served
_____	_____	_____ cfs	_____
_____	_____	_____ cfs	_____
_____	_____	_____ cfs	_____

- PRIMARY TARGET POPULATION:** If you suspect any drinking water intake listed above has been exposed to a hazardous substance from the site (see Surface Water Pathway Criteria List, page 11), list the intake name(s) and calculate the factor score based on the total population served.

_____ people x 10 =

- SECONDARY TARGET POPULATION:** Determine the number of people served by drinking water intakes that you do NOT suspect have been exposed to a hazardous substance from the site, and assign the total population score from PA Table 3.

Are any intakes part of a blended system? Yes _____ No _____
 If yes, attach a page to show apportionment calculations.

- NEAREST INTAKE:** If you have identified a primary target population for the drinking water threat (factor 4), assign a score of 50; otherwise, assign the Nearest Intake score from PA Table 3. If no drinking water intake exists within the target distance limit, assign a score of zero.

- RESOURCES**

T =

PA TABLE 3: VALUES FOR SECONDARY SURFACE WATER TARGET POPULATIONS

Surface Water Body Flow (see PA Table 4)	Population	Nearest Intake (choose highest)	Population Served by Intakes Within Flow Category											Population Value
			1 to 30	31 to 100	101 to 300	301 to 1,000	1,001 to 3,000	3,001 to 10,000	10,001 to 30,000	30,001 to 100,000	100,001 to 300,000	300,001 to 1,000,000	Greater than 1,000,000	
< 10 cfs	_____	20	2	5	16	52	163	521	1,633	5,214	16,325	52,136	163,246	_____
10 to 100 cfs	_____	2	1	1	2	5	16	52	163	521	1,633	5,214	16,325	_____
> 100 to 1,000 cfs	_____	1	0	0	1	1	2	5	16	52	163	521	1,633	_____
> 1,000 to 10,000 cfs	_____	0	0	0	0	0	1	1	2	5	16	52	163	_____
> 10,000 cfs or Great Lakes	_____	0	0	0	0	0	0	0	1	1	2	5	16	_____
3-mile Mixing Zone	_____	10	1	3	8	26	82	261	816	2,607	8,162	26,068	81,663	_____
Nearest Intake = _____			Score = _____											_____

PA TABLE 4: SURFACE WATER TYPE / FLOW CHARACTERISTICS
WITH DILUTION WEIGHTS FOR SECONDARY SURFACE WATER SENSITIVE ENVIRONMENTS

Type of Surface Water Body		Dilution Weight
Water Body Type	OR Flow	
minimal stream	< 10 cfs	1
small to moderate stream	10 to 100 cfs	0.1
moderate to large stream	> 100 to 1,000 cfs	N/A
large stream to river	> 1,000 to 10,000 cfs	N/A
large river	> 10,000 cfs	N/A
3-mile mixing zone of quiet flowing streams or rivers	10 cfs or greater	N/A
coastal tidal water (harbors, sounds, bays, etc.), ocean, or Great Lakes	N/A	N/A

Date:

B. P. Sandy Plains
1/29/93SURFACE WATER PATHWAY (continued)
HUMAN FOOD CHAIN THREAT SCORESHEET

LIKELIHOOD OF RELEASE

Enter Surface Water Likelihood of Release score from page 12.

LR =

A	B	Reference
Suspected Release (100)	No Suspected Release (100, 100, 100 = 100)	
	300	

HUMAN FOOD CHAIN THREAT TARGETS

8. Record the water body type and flow (if applicable) for each fishery within the target distance limit. If there is no fishery within the target distance limit, assign a Targets score of 0 at the bottom of the page.

Fishery Name	Water Body Type	Flow
		cfs
		cfs
		cfs
		cfs
		cfs

9. PRIMARY FISHERIES: If you suspect any fishery listed above has been exposed to a hazardous substance from the site (see Surface Water Criteria List, page 11), assign a score of 300 and do not evaluate Factor 10. List the primary fisheries:

10. SECONDARY FISHERIES

- A. If you suspect a release to surface water and have identified a secondary fishery but no primary fishery, assign a score of 210.
- B. If you do not suspect a release, assign a Secondary Fisheries score from the table below using the lowest flow at any fishery within the target distance limit.

Lowest Flow	Secondary Fisheries Score
< 10 cfs	210
10 to 100 cfs	30
> 100 cfs, coastal tidal waters, oceans, or Great Lakes	12

T =

100, 100, 100 = 0	100, 100, 12 = 0
-------------------	------------------

BP Sandy Plains
1/29/93SURFACE WATER PATHWAY (continued)
ENVIRONMENTAL THREAT SCORESHEET

LIKELIHOOD OF RELEASE

Enter Surface Water Likelihood of Release score from page 12.

LR =

A	B
Suspected Release	No Suspected Release
000	(000,000 or less)
	300

Reference

ENVIRONMENTAL THREAT TARGETS

11. Record the water body type and flow (if applicable) for each surface water sensitive environment within the target distance limit (see PA Tables 4 and 5). If there is no sensitive environment within the target distance limit, assign a Targets score of 0 at the bottom of the page.

Environment Name	Water Body Type	Flow
		cfs
		cfs
		cfs
		cfs
		cfs

12. PRIMARY SENSITIVE ENVIRONMENTS: If you suspect any sensitive environment listed above has been exposed to a hazardous substance from the site (see Surface Water Criteria List, page 11), assign a score of 300 and do not evaluate factor 13. List the primary sensitive environments:

13. SECONDARY SENSITIVE ENVIRONMENTS: If sensitive environments are present, but none is a primary sensitive environment, evaluate Secondary Sensitive Environments based on flow.

- A. For secondary sensitive environments on surface water bodies with flows of 100 cfs or less, assign scores as follows, and do not evaluate part B of this factor:

Flow	Dilution Weight (PA Table 4)	Environment Type and Value (PA Tables 5 and 6)	Total
cfs	x	=	
cfs	x	=	
cfs	x	=	
cfs	x	=	
cfs	x	=	

Sum =

- B. If all secondary sensitive environments are located on surface water bodies with flows > 100 cfs, assign a score of 10.

T =

PA TABLE 5: SURFACE WATER AND AIR PATHWAY SENSITIVE ENVIRONMENTS VALUES

Sensitive Environment	Assigned Value
Critical habitat for Federally designated endangered or threatened species	100
Marine Sanctuary	
National Park	
Designated Federal Wilderness Area	
Ecologically important areas identified under the Coastal Zone Wilderness Act	
Sensitive Areas identified under the National Estuary Program or Near Coastal Water Program of the Clean Water Act	
Critical Areas Identified under the Clean Lakes Program of the Clean Water Act (subareas in lakes or entire small lakes)	
National Monument (air pathway only)	
National Seashore Recreation Area	
National Lakeshore Recreation Area	
Habitat known to be used by Federally designated or proposed endangered or threatened species	75
National Preserve	
National or State Wildlife Refuge	
Unit of Coastal Barrier Resources System	
Federal land designated for the protection of natural ecosystems	
Administratively Proposed Federal Wilderness Area	
Spawning areas critical for the maintenance of fish/shellfish species within a river system, bay, or estuary	
Migratory pathways and feeding areas critical for the maintenance of anadromous fish species in a river system	
Terrestrial areas utilized for breeding by large or dense aggregations of vertebrate animals (air pathway) or semi-aquatic foragers (surface water pathway)	
National river reach designated as Recreational	
Habitat known to be used by State designated endangered or threatened species	50
Habitat known to be used by a species under review as to its Federal endangered or threatened status	
Coastal Barrier (partially developed)	
Federally designated Scenic or Wild River	
State land designated for wildlife or game management	25
State designated Scenic or Wild River	
State designated Natural Area	
Particular areas, relatively small in size, important to maintenance of unique biotic communities	
State designated areas for protection/maintenance of aquatic life under the Clean Water Act	5
See PA Table 6 (Surface Water Pathway)	
or	
PA Table 9 (Air Pathway)	
Wetlands	

**PA TABLE 6: SURFACE WATER PATHWAY
WETLANDS FRONTAGE VALUES**

Total Length of Wetlands	Assigned Value
Less than 0.1 mile	0
0.1 to 1 mile	25
Greater than 1 to 2 miles	50
Greater than 2 to 3 miles	75
Greater than 3 to 4 miles	100
Greater than 4 to 8 miles	150
Greater than 8 to 12 miles	250
Greater than 12 to 16 miles	350
Greater than 16 to 20 miles	450
Greater than 20 miles	500

**SURFACE WATER PATHWAY (concluded)
WASTE CHARACTERISTICS, THREAT, AND PATHWAY SCORE SUMMARY**

WASTE CHARACTERISTICS		A <i>Suspected Release</i> <small>(100 or 20)</small>	B <i>No Suspected Release</i> <small>(100,000 or 10)</small>
<p>14. A. If you have identified any primary target for surface water (pages 12, 14, or 15), assign the waste characteristics score calculated on page 4; or a score of 32, whichever is GREATER; do not evaluate part B of this factor.</p> <p>B. If you have NOT identified any primary target for surface water, assign the waste characteristics score calculated on page 4.</p>		<small>(100 or 20)</small>	<small>(100,000 or 10)</small>
WC =			18

SURFACE WATER PATHWAY THREAT SCORES

Threat	<i>Likelihood of Release (LR) Score</i> <small>(from page 12)</small>	<i>Targets (T) Score</i> <small>(pages 12, 14, 15)</small>	<i>Pathway Waste Characteristics (WC) Score</i> <small>(determined above)</small>	<i>Threat Score</i> <small>LR x T x WC / 82,500</small>
Drinking Water	300	0	18	0 <small>Subject to a maximum of 100</small>
Human Food Chain	300	0	18	0 <small>Subject to a maximum of 100</small>
Environmental	300	0	18	0 <small>Subject to a maximum of 100</small>

SURFACE WATER PATHWAY SCORE

(Drinking Water Threat + Human Food Chain Threat + Environmental Threat)

<small>Subject to a maximum of 100</small> <div style="font-size: 2em;">0</div>
--

Date:

B. P. Sandy Plains
1/29/93

SOIL EXPOSURE PATHWAY CRITERIA LIST

SUSPECTED CONTAMINATION

RESIDENT POPULATION

Surficial contamination can generally be assumed.

Y N U
e o n
s k

☐ ☒ ☐ Is any residence, school, or daycare facility on or within 200 feet of an area of suspected contamination?

☐ ☒ ☐ Is any residence, school, or daycare facility located on adjacent land previously owned or leased by the site owner/operator?

☐ ☒ ☐ Is there a migration route that might spread hazardous substances near residences, schools, or daycare facilities?

☐ ☒ ☐ Have onsite or adjacent residents or students reported adverse health effects, exclusive of apparent drinking water or air contamination problems?

☐ ☒ ☐ Does any neighboring property warrant sampling?

☐ ☐ Other criteria? _____

☒ ☐ ☐ RESIDENT POPULATION IDENTIFIED?

Summarize the rationale for Resident Population (attach an additional page if necessary):

SOIL EXPOSURE PATHWAY SCORESHEET

Pathway Characteristics	
Do any people live on or within 200 ft of areas of suspected contamination?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Do any people attend school or daycare on or within 200 ft of areas of suspected contamination?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Is the facility active? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, estimate the number of workers: <u>2</u>	

LIKELIHOOD OF EXPOSURE

1. SUSPECTED CONTAMINATION: Surficial contamination can generally be assumed, and a score of 550 assigned. Assign zero only if the absence of surficial contamination can be confidently demonstrated.

LE =

Suspected
Contamination

0

Reference

RESIDENT POPULATION THREAT TARGETS

2. RESIDENT POPULATION: Determine the number of people occupying residences or attending school or daycare on or within 200 feet of areas of suspected contamination (see Soil Exposure Pathway Criteria List, page 18).

_____ people x 10 =

3. RESIDENT INDIVIDUAL: If you have identified a resident population (factor 2), assign a score of 50; otherwise, assign a score of 0.

4. WORKERS: Use the following table to assign a score based on the total number of workers at the facility and nearby facilities with suspected contamination:

Number of Workers	Score
0	0
1 to 100	5
101 to 1,000	10
> 1,000	15

5. TERRESTRIAL SENSITIVE ENVIRONMENTS: Use PA Table 7 to assign a value for each terrestrial sensitive environment on an area of suspected contamination:

Terrestrial Sensitive Environment Type	Value

Score =

6. RESOURCES

T =

WASTE CHARACTERISTICS

7. Assign the waste characteristics score calculated on page 4.

WC =

(100, 50, or 10)

18

RESIDENT POPULATION THREAT SCORE:

$$\frac{LE \times T \times WC}{82,500}$$

Indicates to a maximum of 1000

0

NEARBY POPULATION THREAT SCORE:

(10, 5, or 1)

1

SOIL EXPOSURE PATHWAY SCORE:

Resident Population Threat + Nearby Population Threat

Indicates to a maximum of 1000

1

Site name: B.P. Sandy Plains
Date: 1/29/93PA TABLE 7: SOIL EXPOSURE PATHWAY
TERRESTRIAL SENSITIVE ENVIRONMENT VALUES

<i>Terrestrial Sensitive Environment</i>	<i>Assigned Value</i>
Terrestrial critical habitat for Federally designated endangered or threatened species	100
National Park	
Designated Federal Wilderness Area	
National Monument	
Terrestrial habitat known to be used by Federally designated or proposed threatened or endangered species	75
National Preserve (terrestrial)	
National or State terrestrial Wildlife Refuge	
Federal land designated for protection of natural ecosystems	
Administratively proposed Federal Wilderness Area	
Terrestrial areas utilized by large or dense aggregations of animals (vertebrate species) for breeding	
Terrestrial habitat used by State designated endangered or threatened species	50
Terrestrial habitat used by species under review for Federal designated endangered or threatened status	
State lands designated for wildlife or game management	25
State designated Natural Areas	
Particular areas, relatively small in size, important to maintenance of unique biotic communities	

Site name: B.P. Sandy Plains
 Date: 1/29/93

AIR PATHWAY CRITERIA LIST			
SUSPECTED RELEASE		PRIMARY TARGETS	
Y	N	U	
e	o	n	
s		k	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are odors currently reported?		If you suspect a release to air, evaluate all populations and sensitive environments within 1/4 mile (including those onsite) as primary targets.	
<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Has release of a hazardous substance to the air been directly observed?			
<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Are there reports of adverse health effects (e.g., headaches, nausea, dizziness) potentially resulting from migration of hazardous substances through the air?			
<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Does analytical or circumstantial evidence suggest a release to the air?			
<input type="checkbox"/>	<input type="checkbox"/>	Other criteria? _____	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	SUSPECTED RELEASE?	
Summarize the rationale for Suspected Release (attach an additional page if necessary):			

Site name: B.P. Sandy Plains
 Date: 1/29/93

AIR PATHWAY SCORESHEET

Pathway Characteristics	
Do you suspect a release (see Air Pathway Criteria List, page 21)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Distance to the nearest individual:	50 ft

LIKELIHOOD OF RELEASE

- SUSPECTED RELEASE:** If you suspect a release to air (see page 21), assign a score of 550. Use only column A for this pathway.
- NO SUSPECTED RELEASE:** If you do not suspect a release to air, assign a score of 500. Use only column B for this pathway.

	A	B	References
	Suspected Release (550)	No Suspected Release (500)	
		500	
LR =		500	

TARGETS

- PRIMARY TARGET POPULATION:** Determine the number of people subject to exposure from a suspected release of hazardous substances to the air.
_____ people x 10 =
- SECONDARY TARGET POPULATION:** Determine the number of people not suspected to be exposed to a release to air, and assign the total population score using PA Table 8.
- NEAREST INDIVIDUAL:** If you have identified any Primary Target Population for the air pathway, assign a score of 50; otherwise, assign the Nearest Individual score from PA Table 8.
- PRIMARY SENSITIVE ENVIRONMENTS:** Sum the sensitive environment values (PA Table 6) and wetland acreage values (PA Table 9) for environments subject to exposure from a suspected release to the air.

Sensitive Environment Type	Value

- SECONDARY SENSITIVE ENVIRONMENTS:** Use PA Table 10 to determine the score for secondary sensitive environments.
- RESOURCES**

		43	
		20	
Sum =			
		0	
T =		106	

WASTE CHARACTERISTICS

- If you have identified any Primary Target for the air pathway, assign the waste characteristics score calculated on page 4, or a score of 32, whichever is GREATER; do not evaluate part B of this factor.
 - If you have NOT identified any Primary Target for the air pathway, assign the waste characteristics score calculated on page 4.

	(100, 32, = 32)	
	(100, 32, = 32)	(100, 32, = 32)
		18
WC =		18

AIR PATHWAY SCORE:

$$\frac{LR \times T \times WC}{82,500}$$

Indicates a maximum of 1000
12

PA TABLE 8: VALUES FOR SECONDARY AIR TARGET POPULATIONS

Distance from Site	Population	Nearest Individual (choose highest)	Population Within Distance Category												Population Value
			1 to 10	11 to 30	31 to 100	101 to 300	301 to 1,000	1,001 to 3,000	3,001 to 10,000	10,001 to 30,000	30,001 to 100,000	100,001 to 300,000	300,001 to 1,000,000	Greater than 1,000,000	
Onsite	2	20	1	2	5	16	52	163	521	1,633	5,214	16,325	52,136	163,246	1
>0 to 1/4 mile	310	20	1	1	1	4	13	41	130	408	1,303	4,081	13,034	40,811	13
> 1/4 to 1/2 mile	949	2	0	0	1	1	3	9	28	88	282	882	2,815	8,815	3
> 1/2 to 1 mile	3784	1	0	0	0	1	1	3	8	26	83	261	834	2,612	8
> 1 to 2 miles	15858	0	0	0	0	0	1	1	3	8	27	83	266	833	8
> 2 to 3 miles	28367	0	0	0	0	0	1	1	1	4	12	38	120	376	4
> 3 to 4 miles	38960	0	0	0	0	0	0	1	1	2	7	23	73	229	7
Nearest Individual =		20													Score =
															43

PA TABLE 9: AIR PATHWAY VALUES FOR WETLAND AREA

Wetland Area	Assigned Value
Less than 1 acre	0
1 to 50 acres	25
Greater than 50 to 100 acres	75
Greater than 100 to 150 acres	125
Greater than 150 to 200 acres	175
Greater than 200 to 300 acres	250
Greater than 300 to 400 acres	350
Greater than 400 to 500 acres	450
Greater than 500 acres	500

PA TABLE 10: DISTANCE WEIGHTS AND CALCULATIONS FOR AIR PATHWAY SECONDARY SENSITIVE ENVIRONMENTS

Distance	Distance Weight	Sensitive Environment Type and Value (from PA Table 5 or 9)	Product
Onsite	0.10	x	
		x	
0-1/4 mi	0.025	x	
		x	
1/4-1/2 mi	0.0064	x	
		x	
		x	
Total Environments Score =			

B P Sandy Plains
1/29/93

SITE SCORE CALCULATION

	S	S ²
GROUND WATER PATHWAY SCORE (S _{gw}):	1	1
SURFACE WATER PATHWAY SCORE (S _{sw}):	0	0
SOIL EXPOSURE PATHWAY SCORE (S _s):	1	1
AIR PATHWAY SCORE (S _a):	12	144
SITE SCORE:	$\sqrt{\frac{S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2}{4}}$	
		6

SUMMARY

	YES	NO
1. Is there a high possibility of a threat to any nearby drinking water well(s) by migration of a hazardous substance in ground water? A. If yes, identify the well(s). _____ B. If yes, how many people are served by the threatened well(s)? _____	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Is there a high possibility of a threat to any of the following by hazardous substance migration in surface water? A. Drinking water intake B. Fishery C. Sensitive environment (wetland, critical habitat, others) D. If yes, identify the target(s). _____ _____ _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
3. Is there a high possibility of an area of surficial contamination within 200 feet of any residence, school, or daycare facility? If yes, identify the property(ies) and estimate the associated population(s). _____ _____	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Are there public health concerns at this site that are not addressed by PA scoring considerations? If yes, explain: _____ _____ _____ _____	<input type="checkbox"/>	<input checked="" type="checkbox"/>



CERCLA Off-Site Disposal Report

OHM Corporation

Information required for CERCLA off-site disposal activities
on jobs conducted by OHM corporation under its ERCS contracts.

OHM Job #: 12446 DO#: 4001-F4-022 Preparation Date: 5/28/92

1. Superfund site name: BP - Sandy Plains
Location: Atlanta, GA
EPA ID number: GA 3680090005
2. Type of action: ☒ Removal ☐ Remedial ☐ Other
3. Type & Form of Waste: Type: organic over water
Form: ☒ Liquid ☐ Solid ☐ Sludge
4. Quantity of Waste: (2) 55 gallon drums
5. Pretreatment of waste (at CERCLA site) before transportation:
None
6. Receiving facility name / location / EPA ID # / Unit (if applicable):
MKC Enterprises / Doraville, GA 30340 / GAD000616367
7. Receiving region: IV
8. Date(s) of shipment: 4/1/92
9. Pretreatment by receiving facility prior to final treatment or disposal
None
10. Final method of treatment or disposal / Unit of facility if different from above:
ACTIVEC Chemical
11. Type of liner in cell if waste was landfilled: N/A
12. Date of clean-up initiation: 4/10/92
Date of clean-up completion: 5/1/92
13. Cost for disposal: 600.00
Cost for transportation: 200.00

90744

UNIFORM HAZARDOUS
WASTE MANIFEST

1. Generator's US EPA ID No.

GA3680090005

Manifest Document No.

90744

2. Page 1
of 1Information in the shaded areas is
not required by Federal law.

3. Generator's Name and Mailing Address

US EPA Region IV (BP-SANDY PLAINS)
345 Courtland Street NE, Atlanta, Ga 30365

4. Generator's Phone (404) 347-3931

A. State Manifest Document Number

90744

B. State Generator's ID

GA3680090005

5. Transporter 1 Company Name

MKC ENTERPRISES, INC.

6. US EPA ID Number

GA3680090005

C. State Transporter's ID

GAD000616387

D. Transporter's Phone

404-457-1341

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address

MKC ENTERPRISES, INC.
5356 New Peachtree Rd.

Doraville, GA 30340

10. US EPA ID Number

GA3680090005

G. State Facility's ID

GAD000616387

H. Facility's Phone

404-457-1341

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers

13. Total Quantity

14. Unit Wt/Vol

15. Waste No.

a.

RQ Waste Flammable Liquid, N.O.S.,
X Flammable Liquid, UN1993

No.

Type

EST

P

D001

b.

RQ Waste Corrosive Liquid, N.O.S.,
X Corrosive Material, UN1760

No.

Type

EST

P

D002

c.

d.

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

"EMERGENCY RESPONSE"

15. Special Handling Instructions and Additional Information

If spill occurs, refer to Emergency Response Guidebook, Guide #

a) 27 c) 60

24-Hour Emergency Response # (404) 457-1341

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this assignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name

P. R. Person / OSC

Signature

P. R. Person

Month Day Year

04/10/92

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Michael J. Hodgson

Signature

Mike Hodgson

Month Day Year

04/10/92

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

Form 13a ACTUAL WT 864 LB

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name

SHARON HODGSON

Signature

Sharon Hodgson

Month Day Year

04/13/92

TRANSPORTER #1